

Continuous Deflective Separation (CDS) Unit Maintenance Plan**Model Number: (Attach schematic diagram)**

1 Objective: To maintain the hydrodynamic design to trap and capture gross pollutants (trash and debris >4mm) and to remove sediment and associated pollutants.

2 Inspection Schedule

2.1 New Installation Inspection: The condition of the unit shall be checked after every runoff event for the first 30 days of the rainy season post-installation. The visual inspection shall ascertain that the unit is functioning properly (no blockages or obstructions to inlet and/or separation screen); measure the amount of solid materials that have accumulated in the sump; the amount of fine sediment accumulated behind the screen; and determine the amount of floating trash and debris in the separation chamber. This can be done with a “dip stick” calibrated to track the depth of deposition. The on-going inspection and cleaning schedule shall be determined based upon the new installation inspection results.

3 Inspection and Maintenance: On-Going Operation (after 30 days of the first rainy season)

3.1 Rainy Season (Oct 15 – April 15)

3.1.1 Monthly: The CDS unit must be inspected and cleaned at a minimum once per month or more frequently (as determined by inspection). The floatables shall be removed and the sump cleaned when the unit is 75-85% full. Each cleaning will include the following:

- Removal of floatables and debris from the weir box
- Removal of silt and sediment around the flow control devices to prevent clogging
- Removal of sediment from the sump
- Visual inspection to ascertain that there are no vector control issues (refer to Section 4 – Vector Control)

3.1.2 End of Season: The unit shall be cleaned out at the end of the rainy season to prevent odor generation due to decomposition of organic matter in the sump.

3.2 Dry season (April 16-Oct 14)

3.2.1 Monthly: The CDS unit shall be checked monthly to assess if cleaning is needed. Inspect the volume of floatables (trash and debris) in the weir box and remove if necessary. If floatables accumulate more rapidly than settleable solids,

the floatables should be removed before the layer thickness exceeds two feet. The CDS unit's sump must be cleaned when the sump is 75-85% full.

The sump should also be inspected to determine if there are vector control issues. Refer to Section 4 – Vector Control for specific details regarding vector control.

3.3 Annual maintenance. The following activities shall be completed at least once per year, or more frequently as inspections warrant.

3.3.1 Pump down the CDS unit: Remove all liquid and solids from the unit.

Release wash water to a vegetated area or the sanitary sewer system once approval has been given by Union Sanitary District.

Union Sanitary District
5072 Benson Rd.
Union City CA 94587
510-477-7500
www.unionsanitary.com

3.3.2 Power wash the separation screen: The separation screen shall be power washed during the annual inspection and maintenance.

3.3.3 Inspect for presence of mosquitoes or other vectors: Determine if mosquitoes or other vectors are present in the unit. If mosquitoes are present, contact Alameda County Vector Control Services District (refer to Section 4 for contact information).

3.3.4 Inspect the integrity of the CDS unit: Inspect for damage to the following components:

- Inlet flume
- Containment cylinder
- Separation chamber, including the inlet cylinder and separation screen
- Oil baffle
- CDS unit cover, including hydraulic lifting mechanism (if applicable).

The CDS unit's internal components should not show any signs of damage or any loosening of bolts used to fasten the various components. If any problems are discovered, repair shall be completed as soon as possible.

NOTE: The CDS unit is a confined space. Only properly trained people equipped with required safety gear should be allowed to enter the unit to perform the detailed inspection.

4 Vector Control

4.1 Objective: To prevent conditions within CDS units that attract and/or promote the proliferation of disease vectors, including but not limited to mosquitoes and rodents.

4.2 Maintenance Activities for Vector Control

- 4.2.1 Inspections:** Regular inspections will determine if CDS units have standing water. Inspections shall be conducted prior to the rainy season, after major storm events, and at least once during the dry season to ascertain that standing water drains from the unit within 72 hours. If standing water does not drain from the unit within 72 hours, remedial actions shall be completed as soon as possible.
- 4.2.2 Vector-restricting covers:** Vector-restricting covers should be inspected to ensure integrity. Access holes should be sealed to prevent mosquito entry.
- 4.2.3 Mosquito netting:** If necessary, install mosquito netting over the outlet.
- 4.2.4 Other maintenance activities:** If any obstructions develop (e.g. debris accumulation, clogging of outlets and/or separation screen) within the CDS unit, appropriate maintenance activities shall be implemented to correct the obstruction.

4.3 Mosquito Abatement District: The Alameda County Vector Control Services District (ACVCSD) shall be contacted as needed for assistance should any mosquito issues arise. Mosquito larvicides should be applied only when absolutely necessary as indicated by the ACVCSD, and then only by a licensed professional or contractor. The contact information for ACVCSD follows:

Alameda County Vector Control Services District
1131 Harbor Bay Parkway, STE 166
Alameda, CA 94502

Phone 510-567-6800
Fax 510-337-9137
ehvector1@acgov.org
www.mosquitoes.org

5 Correspondence

Correspondence regarding operations, inspections and maintenance of the storm water treatment measures will be provided to the City of Fremont's Environmental Services Division as required and according to the schedule outlined in the Operations and Maintenance Agreement.